

Octal	Decimal	Permission	Representation
000	0 (0+0+0)	No Permission	---
001	1 (0+0+1)	Execute	--X
010	2 (0+2+0)	Write	-W-
011	3 (0+2+1)	Write + Execute	-WX
100	4 (4+0+0)	Read	r--
101	5 (4+0+1)	Read + Execute	r-X
110	6 (4+2+0)	Read + Write	rw-
111	7 (4+2+1)	Read + Write + Execute	rwX

d	r read	w write	x exec	r read	- write	X exec	r read	- write	- exec
File type	Owner permissions			Group permissions			User permissions		
(directory)	4	2	1	4	2	1	4	2	1
	7			5			4		

CHMOD is used to change permissions of a file.

PERMISSION			COMMAND		
U	G	W			
rwX	rwX	rwX	chmod	777	filename
rwX	rwX	r-X	chmod	775	filename
rwX	r-X	r-X	chmod	755	filename
rw-	rw-	r--	chmod	664	filename
rw-	r--	r--	chmod	644	filename
User	Group	World			
				r = Readable	
				w = Writable	
				x = Executable	
				- = None	

	Owner	Group	Any	All
Read	400	040	004	444
Write	200	020	002	222
Exec	100	010	001	111
All	700	070	007	777